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JUN 25 1990

DIVISION OF
OIL, GAS & MINING

JUMBO MINING CO.

6305 Fern Spring Cove
Austin, Texas 78730
(512) 346-4537
Telex # 76-7177

received 6-25-90
HWS

June 23, 1990
File: OGM6230

Mr. D. Wayne Hedberg
Permit Supervisor
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

FAX NO. 801-359-3940

Dear Mr. Hedberg:


Re: Drum Mine, M/027/007; Revised Notice of Intent; Mizpah Pit

Thank you for your response dated April 23rd to our Notice of Intent to Revise Large Mining Operations, including an itemized list of additional information which you require.

Please find attached a copy of this listing, together with our answers thereto.

I trust that you will find everything in order, but please call me if I can be of further assistance in expediting this Permit.

Sincerely,


E. B. King

cc: F. Rex Rowley, BLM, House Range Resource Area
David Rupp, Dept. of Environmental Health
D.Hartshorn, Drum Mine

MINERALS PROGRAM
Large Mine NOI Deficiency Review

NOI FORM: MR-LMO ___ MR-REV X FILE NUMBER: M/027/007

LEAD: Wayne Hedberg

COMPANY: Jumbo Mining Company

MINE NAME: Drum Mine

DATE RECVD: March 5, 1990

RULE:

Filing Requirements:
R613-004-101

Surface and Mineral Ownership:
R613-004-104 X ✓

Maps, Drawings and Photos:
R613-004-105

105.1	_____
105.1.11	_____
105.1.12	_____
105.1.13	_____
105.1.14	<u>X</u> ✓
105.2	<u>X*</u> ✓
105.2.11	_____
105.2.12	_____
105.3	_____
105.3.11	<u>X</u> NO MAP NEED ✓
105.3.12	_____
105.3.13	_____
105.3.14	<u>X</u> ✓
105.3.15	_____
105.3.16	<u>X</u> ✓
105.3.17	<u>X</u> ✓
105.3.18	<u>X**</u> ✓
105.4	_____

Operation Plan:

R613-004-106

106.1	_____
106.2	_____
106.3	_____
106.4	<u>X</u> ✓
106.5	<u>X</u> ✓
106.6	<u>X</u> ✓
106.7	_____
106.8	<u>X</u> ✓
106.9	<u>X</u> ✓

Operation Practices:
R613-004-107

107.1.11	_____
107.1.12	_____
107.1.13	<u>X***</u> ✓
107.1.14	_____
107.1.15	_____
107.2	_____
107.3	_____
107.4	_____
107.5	_____
107.6	_____

Hole Plugging Requirements:
R613-004-108

108.1	_____
108.2	_____
108.2.11	_____
108.2.12	_____

Impact Assessment:
R613-004-109

109.1	<u>X</u> ✓
109.2	<u>X</u> ✓
109.3	<u>X</u> ✓
109.4	<u>X</u> ✓
109.5	<u>X</u> ✓

Reclamation Plan:

R613-004-110

110.1	<u>X</u> ✓
110.2	<u>X</u> ✓
110.3	<u>X</u> ✓
110.4	_____
110.5.11	<u>X</u> ✓
110.5.12	<u>X</u> ✓

Page 2
Deficiency Review

Reclamation Practices:

R613-004-111

111.1.11	_____	_____
111.1.12	X	_____
111.1.13	X ***	_____
111.1.14	X	_____
111.1.15	_____	_____
111.2	_____	_____
111.3	X	_____
111.4	_____	_____
111.5	_____	_____
111.6	X	_____
111.7	X	_____
111.8	X	_____
111.9	_____	_____
111.10	X	_____
111.11	X	_____
111.12	X	_____
111.13	_____	_____

Variance:

R613-004-112

112.1.11	X ****	_____
112.1.12	X ****	_____
112.1.13	X ****	_____
112.1.14	X ****	_____

Surety:

R613-004-113

113.4	*****	_____
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* No scale or key indicated on map provided.

** Anticipated post-mining pit configuration design drawing details and typical x-sections.

*** Those holes not within pit area to be mined out.

**** ALL variance requests must be specified in detail as part of the revision application.

***** The reclamation surety estimate will be evaluated pending resolution of the deficiency information requested above.

jb
MN92/5-6

MIZPAH PROJECT COMMENTS

- (1) REG. R613-004-104
See Map R613-004-104 "Surface & Mineral Ownership"
- (2) REG. R613-004-105.1.14
See Map R613-004-105.1.14 "Previous Disturbed Areas"
- (3) REG. R613-004-105.2
See Map R613-004-105.2 "Base Map - Surface Facilities"
- (4) REG. R613-004-105.3.11
No map needed because all regraded waste dump slopes will
be less or equal to 2h:1V slope
- (5) REG. R613-004-105.3.14
See map R613-004-105.3.14 "Area To Be Disturbed But Will
Not Be Reclaimed"
- (6) REG. R613-004-105.3.16
See Map R613-004-105.3.16 (A),(B),(C)
 - (A) "Geology - Structure Map"
 - (B) "Topsoil Location Map"
 - (C) "Vegetation Survey Map"

(7) REG. R613-004-105.3.17

See Map R613-004-105.3.17
"Reclamation Activities and Treatment Map"

(8) REG. R613-004-105.3.18 (A) & (B)

See Map R613-004-105.3.18 (A) & (B)
"Post Mining Pit Configuration"

(A) - Cross-section Plan Map
(B) - Cross-section A-A' & B-B'

(9) REG. R613-004-106.4

(a) Ore Rock is hydrothermally altered limestones
and shales

(b) Waste Rock is limestones & shales

(c) Approximate annual tonnage to be mined = 500,000

(10) REG. R613-004-106.5

Very little soil exists in the areas to be disturbed.
Approximately 1400 yards of poorly developed soil
(60-70% coarse rock) can be removed and stockpiled
(see map R613-004-105.3.16 (B)) from the bottoms of
small washes. A variance has already been applied for.

(11) REG. R613-004-106.6

Soil stockpiles will be on old drill roads that lie on
small ridges between drainage areas. Frontend loaders
will redeposit soil onto waste dumps before
scarification.

(12) REG. R613-004-106.8

No groundwater is known. Deepest hole in area to be
disturbed is 300' (dry). Deepest hole in area 1000'
(dry).

(13) REG. R613-004-106.9 See various maps.

14) REG. R613-004-107.1.13

All holes outside of area to be disturbed (see Map
R613-004-105.1.14 "Previous Disturbed Area") will be
plugged as set forth in Rule R613-004-108.

(15) REG. R613-004-109

(.1) (a) Groundwater is not known

(b) No Permanent surface water occurs. The NW dump will be placed on a hill side and the So. dump will be placed in a small valley near the top of its watershed, therefore any runoff from rain will be little affected by the waste piles.

(.2) No endangered species or habitats occur in the area.

(.3) Soil resources are minor and mining will have very little impact.

(.4) (a) Slopes of waste dumps will have a final slope angle off no steeper than 2H:1V as stated in R613-004-105.3.11.

(b) Erosion will be controlled by (1) regrading slopes to 2:1 or less (2) placing coarse rock slopes and (3) reseeding

(c) Air quality and public health and safety will be in accordance with the laws set forth by Mine Safety and Health Ad.

(.5) A soil variance has already been requested.

(16) REG. R613-004-110 Reclamation

(.1) Current land use other than mining is winter sheep grazing. Post mining land use will be the same.

(.2) (a) Roads that are to be reclaimed will be scarified and seeded.

(b) Where highwalls are accessible, they will be bermed.

(c) Slopes of wastepile will be regraded and seeded; slopes of pit will remain open

(d) Tops of waste piles and ramps to pit will be replaced with any salvaged soil, scarified and seeded

(e) Drill holes will be plugged as stated above.

(.3) Only the pit, waste piles and roads will remain after mining. All buildings (none) and equipment will be removed.

(.5.11) Revegetation will consist of grading, replacing any top soil salvaged, scarifying and seeding. Seed mixtures and rates will be the same as the Drum Mine. Seeding will take place in the fall

(.5.12) A variance has been requested for soil. Erosion control has been mentioned above. Junipers will be salvaged on land disturbed and will be placed on tops of waste piles to provide some cover and mulching for seeds.

(17) REG.

R613-004-111

Reclamation Practice

(.1.12) All trash, debris, scrap, etc. will be buried or hauled to Drum for disposal.

(.1.13) All drill holes outside of disturbed area will be plugged as set forth in Rule R613-004-108

(.1.14) Warning signs will be posted

(.3) As mentioned above waste piles & soil stockpiles will be placed in areas away from drainage. Slopes of dumps will be from 0-30 degrees (2:1). Coarse rock and seeding will control slope erosion.

(.6) Slopes of waste piles will have a slope of no greater than 2H:1V as stated in Rule R613-004-103.311.

(.7) No highwall wall in pit will be steeper than 45 degrees

(.8) Except for the existing road, all new roads will be reclaimed. The old road not to be reclaimed will have adequate drainage provided.

(.10) All trenches and pits made by Jumbo will be reclaimed in the Mizpah area.

(.11) No structures and equipment will remain

(.12) any topsoil salvaged will be placed on tops of dumps

(18) REG.

R613-004-112

Variance

(.1.11) R613-004-109 - Soil Resources

(.1.12) Variance requested is the emplacement of soil on areas to be reclaimed

(.1.13) Lack of soil resources in the area is apparent. Very little soil exists in the area to be disturbed

(.1.14) Any soil which does occur in the small drainages will be salvaged and replaced on tops of dumps. Junipers in the area of disturbance will be saved

and placed on tops of dumps to provided shade and mulch for seeding.

(19) REG. R613-004-113.4 Surety

TSP 171
(IBEX GOLD LEASED
TO JUMBO)

N159W
TO NW CORNER
SEC. 6

TISS ROW

6400 Contour

SADIE 5

WASTE

umc 154058
SADIE 2

SADIE 1
umc 154057

HAUL ROADS

MIZPAH

PIT

WASTE

DUMP

MIZPAH
umc 154056

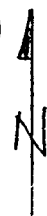
MIZPAH
umc 154051

MAP R613-004-104

"SURFACE AND MINERAL
OWNERSHIP"

ALL AREAS LIE WITHIN
LAND OWNED BY BLM WITH
MINERAL CLAIMS OWNED BY
MIZPAH MINING (LEASED TO JUMBO)

1" = 200'

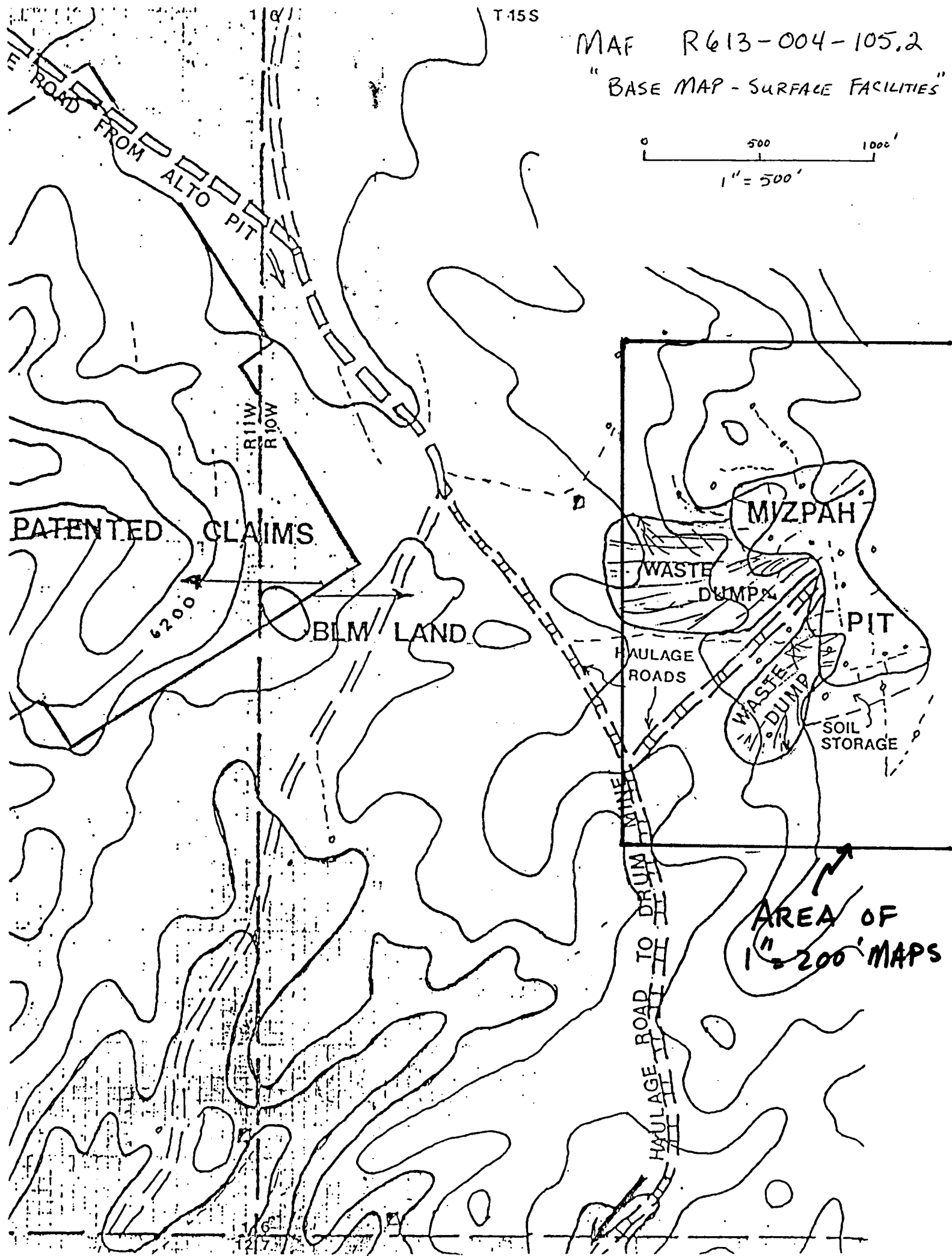


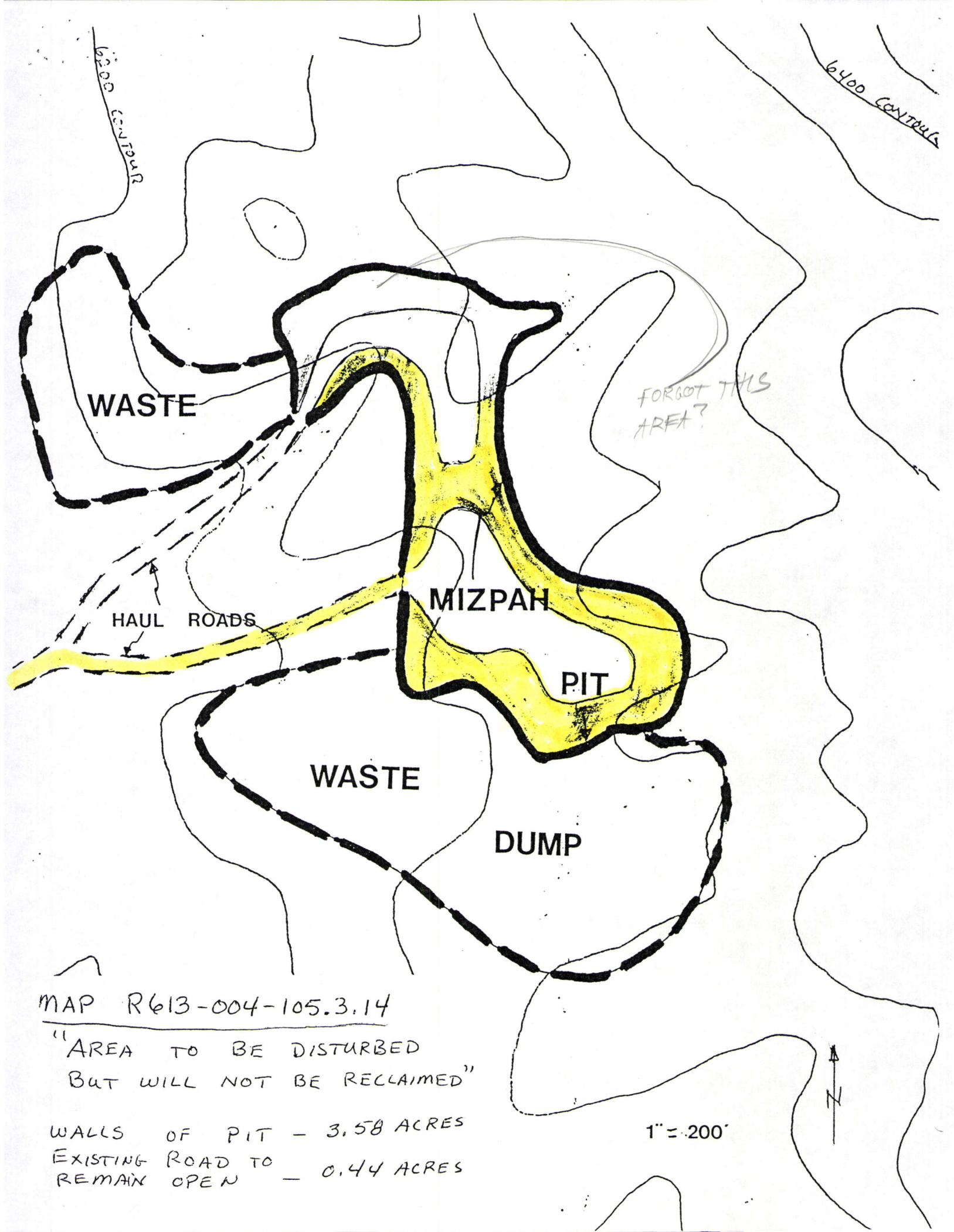
T.15S

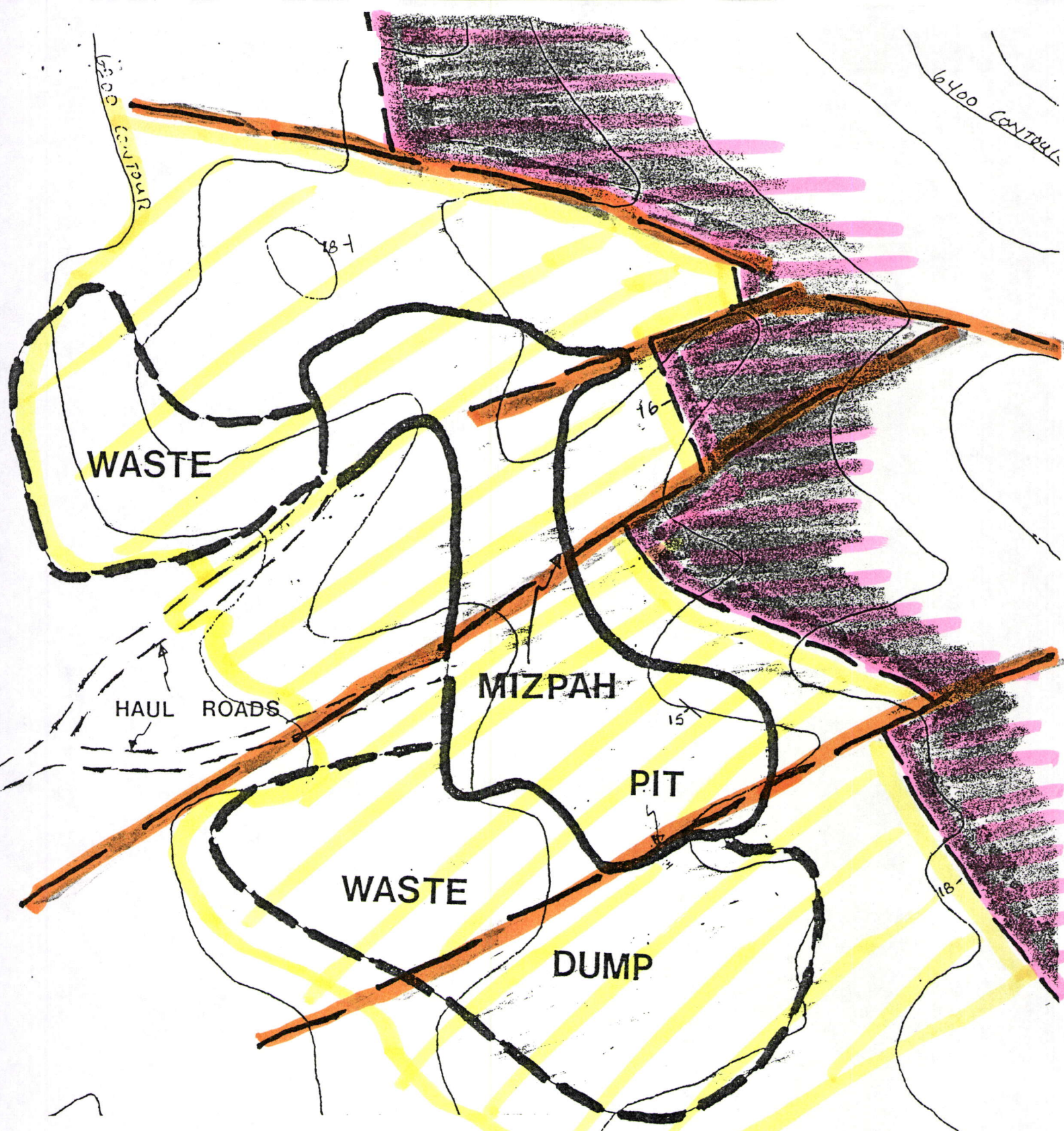
MAF R613-004-105.2

"BASE MAP - SURFACE FACILITIES"




0 500 1000'
1" = 500'



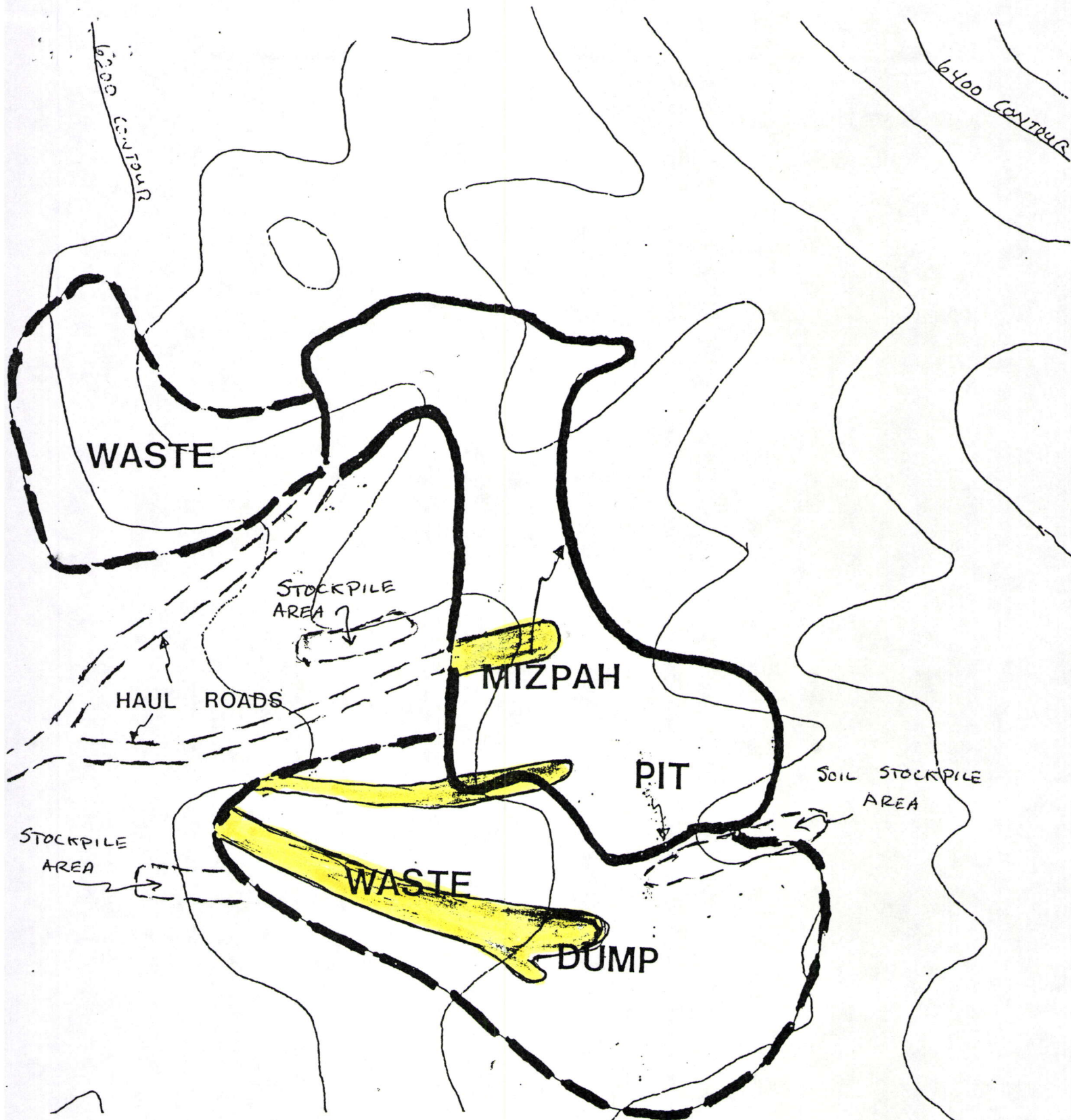




MAP R613-004-105.3.16 A
GEOLOGY - STRUCTURE
MIZPAH PIT

-  = QUARTZITE
-  = LIMESTONE W/ INTERBEDDED SHALES
-  = FAULT
- 164 = STRIKE + DIP

1" = 200'



MAP R613-004-105.3.16 (B)

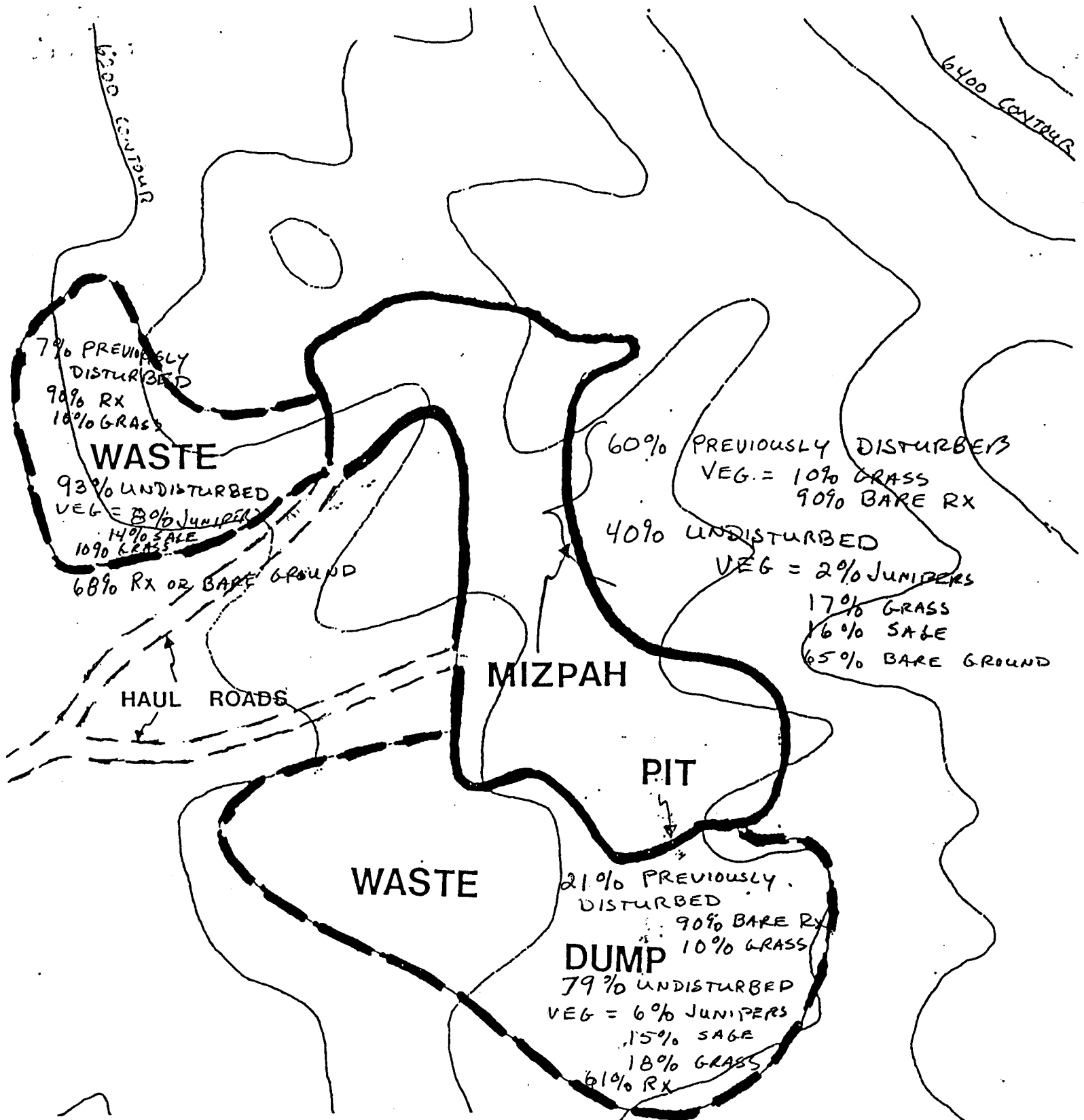
"TOPSOIL LOCATION MAP"

 = AREAS WHERE SOME TOPSOIL OCCURS (APPROX 1400 CU. YARDS)

 = SOIL STOCKPILE AREA

1" = 200'

N



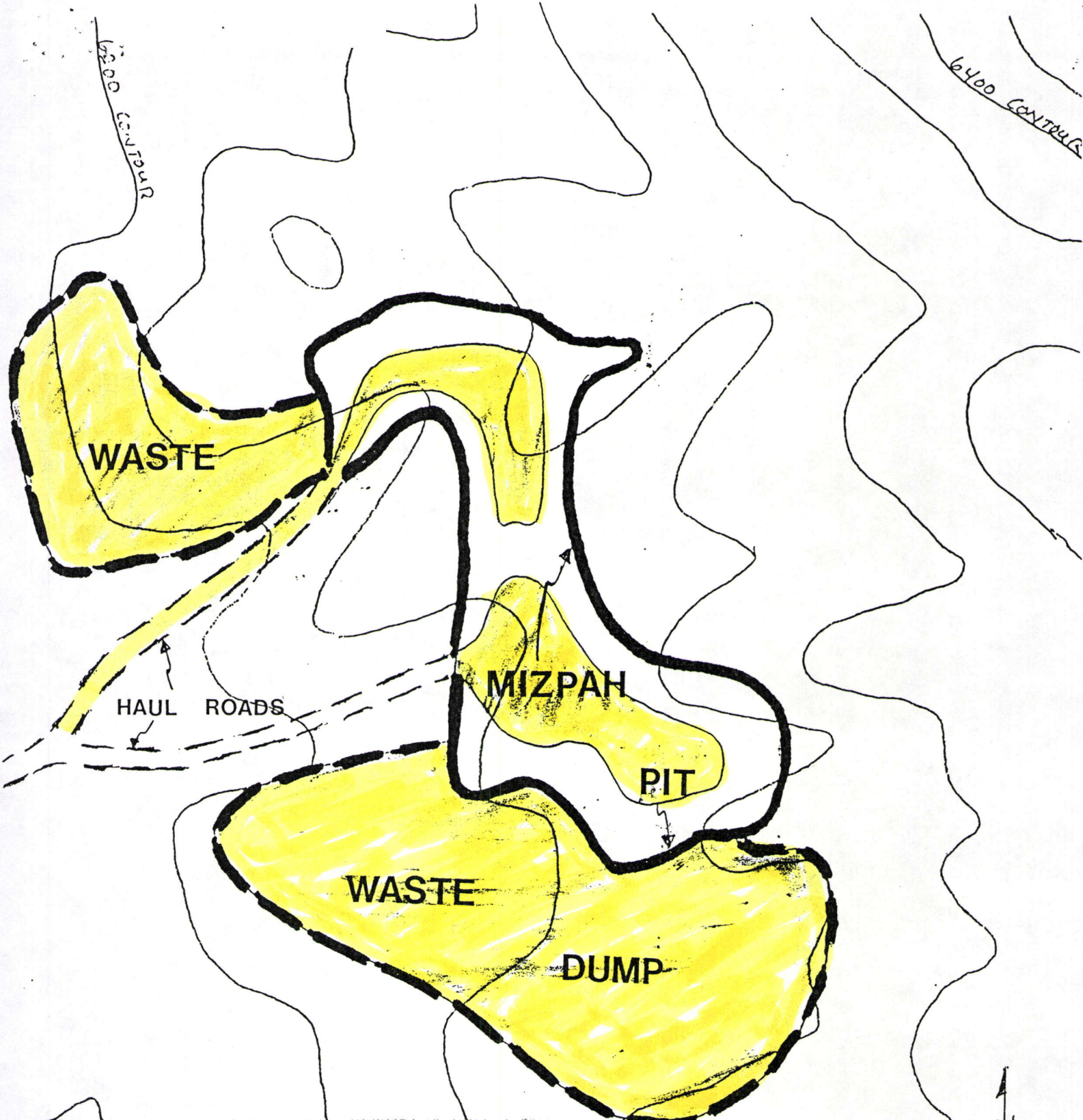
MAP R613-004-105.3.16 (C)
 "VEGETATION SURVEY MAP"

PRESENT VEGETATION COVER

PIT = 20%
 SO. Dump = 33%
 NW Dump = 30%

1" = 200'





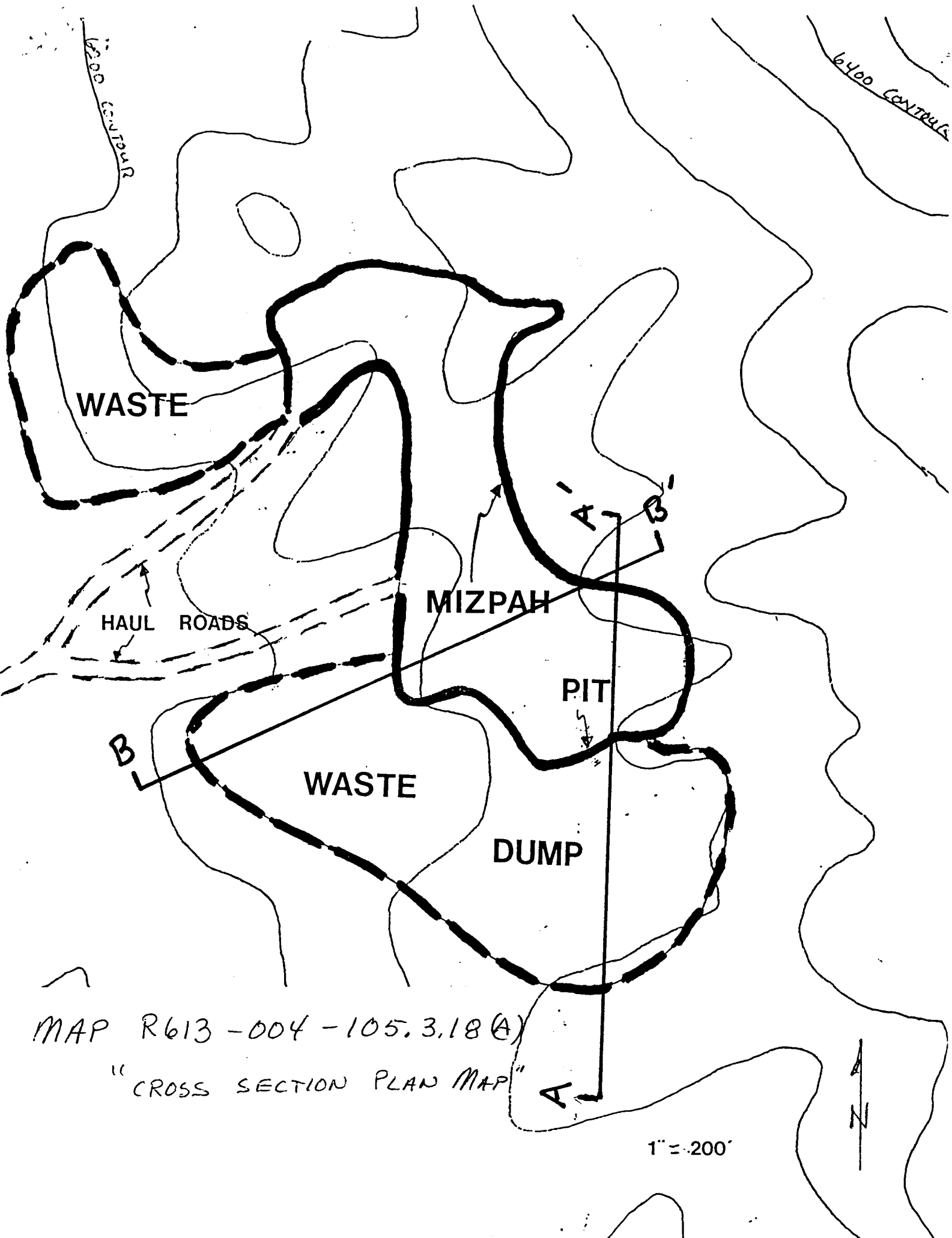
MAP R613-004-105.3.17

"RECLAMATION ACTIVITIES
AND TREATMENT MAP"

WASTE DUMPS = 10.28 ACRES
RAMPS TO PIT = 2.57 "
HAUL ROADS = 0.30 "

TOTAL 13.15 ACRES

1" = 200'



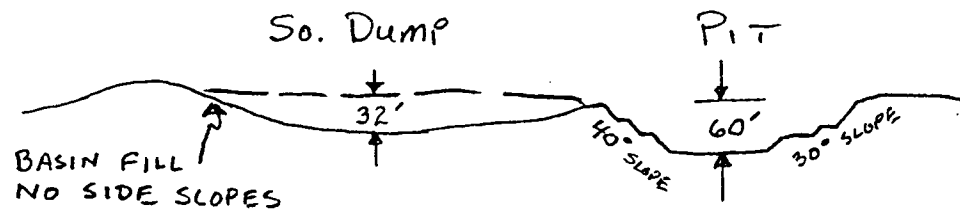
MAP R613-004-105.3.18(A)

"CROSS SECTION PLAN MAP"

1" = 200'

A

A'



6300

6200

 $1" = 200'$

B

B'



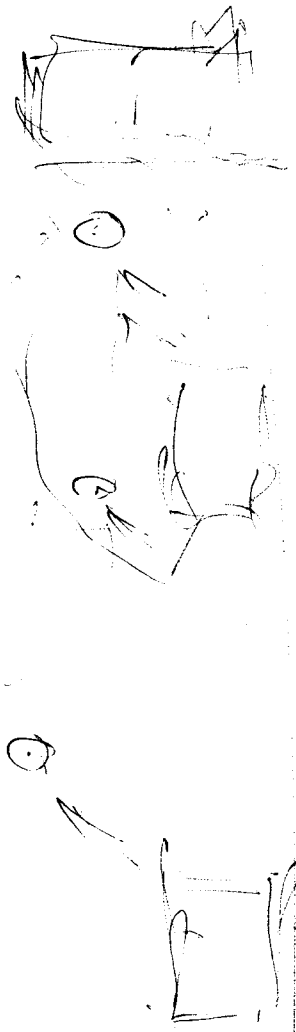
6300

6200

MAP R613-004-105.3.18 (B)

"CROSS SECTIONS 'A-A' + 'B-B'

个H



215

215